

L9T1007R1

ENGINEERING CHANGE PROPOSAL (ECP), PAGE 1				1. DATE (YYMMDD) 000105		Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503 PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT / PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.						2. PROCURING ACTIVITY NO. L9T1007R1	
						3. DODAAC	
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) BENET LABORATORIES AMSTA-AR-CCB-DD		b. ADDRESS (Street, City, State, Zip Code) U.S. ARMY ARDEC BENET LABORATORIES/AMSTA-AR- CCB-DD		5. CLASS OF ECP I			
6. ORIGINATOR a. MODEL/TYPE		b. CAGE CODE 19200		c. SYSTEM DESIGNATION TANK, COMBAT		9. BASELINE AFFECTED FUNCTIONAL <input checked="" type="checkbox"/> PRODUCT ALLOCATED	
d. ECP NO. L9T1007R1		e. TYPE F		f. REV		10. OTHER SYS./CONFIG. ITEMS AFFECTED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
11. SPECIFICATIONS AFFECTED				12. DRAWINGS AFFECTED			
a. SYSTEM		CAGE CODE		Specification/Document No.		REV. SCN	
b. DEVELOPMENT		N/A				SEE ATTACHED SHEET NEW	
c. PRODUCT							
13. TITLE OF CHANGE GUNNER'S/COMMANDER'S CONTROL TESTER MODIFICATION							
14. CONTRACT NO. AND LINE ITEM				15. PROCURING CONTRACTING OFFICER a. NAME (First, Middle Initial, Last)			
				b. CODE			
				c. Telephone No.			
16. CONFIGURATION ITEM NOMENCLATURE M1 SERIES TANK, COMBAT						17. IN PRODUCTION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
18. ALL LOWER LEVEL ITEMS AFFECTED							
a. NOMENCLATURE GUNNER'S/COMMANDER'S CONTROL TESTER				b. PART NO. 12283472		c. NSN	
19. DESCRIPTION OF CHANGE DRAWING 12283472 HAS STABLE MASTER ARTWORK ERRORS THAT NEED CORRECTION (12283472) SECOND CHANGE: REDIMENSIONING HARDWARE BRACKET TO RESOLVE FABRICATION ISSUES (9338670)							
20. NEED FOR CHANGE SEE ATTACHED SHEET							
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER				22. EFFECT ON PRODUCTION DELIVERY SCHEDULE			
23. RETROFIT							
a. RECOMMENDED ITEM EFFECTIVITY				b. SHIP / VEHICLE CLASS AFFECTED			
c. ESTIMATED KIT DELIVERY SCHEDULE				d. LOCATIONS OR SHIP / VEHICLE NUMBERS AFFECTED			
24. ESTIMATED COSTS / SAVINGS UNDER CONTRACT				25. ESTIMATED NET TOTAL COSTS / SAVINGS			
26. SUBMITTING ACTIVITY a. AUTHORIZED SIGNATURE ROBERT A. PIACENTE				b. TITLE T.I.P.O.			
27. APPROVAL / DISAPPROVAL							
a. CLASS I <input type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> DISAPPROVAL RECOMMENDED		b. CLASS II <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		c. CLASS II <input type="checkbox"/> CONCUR IN CLASSIFI- CATION OF CHANGE <input type="checkbox"/> DO NOT CONCUR IN CLASSIFI- CATION OF CHANGE			
d. GOVERNMENT ACTIVITY				e. SIGNATURE		f. DATE SIGNED (YYMMDD)	
g. APPROVAL <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED		h. GOVERNMENT ACTIVITY TACOM. AMSTA-TR-E/TANK		i. SIGNATURE Jesse R. [Signature]		j. DATE SIGNED (YYMMDD) 2000 0119	

ECP L9T1007R1  
FORM 1692  
BLOCK 12 AND 18

L9T1007R1

DRAWINGS TO BE AFFECTED:

PART NO.	NOMENCLATURE	REV.	NSN NO.	CAGE	NOR
9338670	BRACKET	NEW		19200	1
12283656	PRINTED WIRE BOARD	A		19207	2

ECP L9T1007R1  
FORM 1692  
BLOCK 19 and 20  
Recommendation: Accept

ECP L9T1007 had the following descriptions of change:

"ECP L9T1007 has been initiated in order to address various fabrication and manufacturing issues to resolve vendor concerns in making the Gunner's/Commander's Control Tester 12283472. This tester is a Basic Issue Item (BII) for the M1 Series Tank.

First action of this ECP corrects dimensional errors found on the Stable Based Artwork referenced in Printed Wiring Master 12283656. Printed Wiring Master 12283656 is used to create Board, Printed Wiring 12283639, which is found on Circuit Board Assembly 12283638. This circuit board assembly is used in the Gunner's/ Commander's Control Tester 12283472, which is the top item that needs correction. The spacing needs to be changed on the Stable Based Artwork to reflect lead spacing from 0.100" to 0.109", otherwise the assembly will not occur. Affected Drawing is only Stable Based Artwork referenced in 12283656.

Second action of this ECP corrects small dimension interference in the housing hardware (a bracket) of the tester assembly. Bracket 9338670 is used on Chassis Assembly 12283600, which is part of the Gunner's/Commander's Control Tester 12283472. Dimension changes are recommended to this bracket to ease assembly of the Chassis Assembly 12283600. Affected drawing is 9338670.

Third action of this ECP is to replace one of the potentiometers used in this tester due to noise issues. In particular, new testers are having a calibration issue where they can not be calibrated due to electrical noise being generated due to "cross-talk" with parallel wires in the wiring harness. A higher Ohmic value potentiometer (250K as opposed to current 100K) has been bench tested in a tester that could not be calibrated with the old potentiometer, and the calibration issue ceased with the new potentiometer installed. Affected drawings are 12283638 and 12283655.

This ECP will encompass all known deficiencies encountered in the last contract for this Gunner's/ Commander's Control Tester 12283472."

The changes occurring in L9T1007R1 consist of removing the potentiometer changes to L9T1007. The rationale of this removal is the following. Upon further testing it has been shown that the current 100K potentiometer can be calibrated in most cases. The cases that do not calibrate, the recommendation of this activity is to utilize the 250K potentiometer in a waiver or deviation mode solution as done on last government contract. Therefore it is not pertinent to include the potentiometer changes in L9T1007, and are dropped from ECP L9T1007.

Therefore the description of changes for L9T1007R1 shall consist of the following:

"ECP L9T1007R1 has been initiated in order to address various fabrication and manufacturing issues to resolve vendor concerns in making the Gunner's/Commander's Control Tester 12283472. This tester is a Basic Issue Item (BII) for the M1 Series Tank.

First action of this ECP corrects dimensional errors found on the Stable Based Artwork referenced in Printed Wiring Master 12283656. Printed Wiring Master 12283656 is used to create Board, Printed Wiring 12283639, which is found on Circuit Board Assembly 12283638. This circuit board assembly is used in the Gunner's/ Commander's Control Tester 12283472, which is the top item that needs correction. The spacing needs to be changed on the Stable Based Artwork to reflect lead spacing from 0.100" to 0.109", otherwise the assembly will not occur. Affected Drawing is only Stable Based Artwork referenced in 12283656.

Second action of this ECP corrects small dimension interference in the housing hardware (a bracket) of the tester assembly. Bracket 9338670 is used on Chassis Assembly 12283600, which is part of the Gunner's/Commander's Control Tester 12283472. Dimension changes are recommended to this bracket to ease assembly of the Chassis Assembly 12283600. Affected drawing is 9338670.

L9T1007R1

NOTICE OF REVISION (NOR)		1. DATE (YYMMDD) 000105		Form Approved OMB No. 0704-0188	
THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENTS LISTED.				2. PROCURING ACTIVITY NO. L9T1007R1	
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				3. DODAAC	
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES, RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT / PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.					
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) BENET LABORATORIES AMSTA-AR-CCB-DD		b. ADDRESS (Street, City, State, Zip Code) US ARMY ARDEC BENET LABORATORIES/AMSTA-AR-CCB-EC WATERVLIET, NY 12189-4050		5. CAGE CODE 19200	
				6. NOR NO. 1	
		7. CAGE CODE 19200		8. DOCUMENT NO. 9338670	
8. TITLE OF DOCUMENT BRACKET		10. REVISION LETTER a. CURRENT NEW		11. ECP NO. L9T1007R1	
		b. NEW			
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CHASSIS ASSEMBLY 12283600, A SUB-PART OF 12283472				NOR SHT 1 OF 2	
				ECP SHT 3 OF 4	
13. DESCRIPTION OF REVISION ON DRAWING #9338670 SECTION CHANGE THE FOLLOWING:					
SECTION D5 CHANGE DIMENSION FROM: ".25" TO: ".19" 2PL 2PL					
SECTION C5 CHANGE DIMENSION FROM: ".12" TO: ".14"					
SECTION B6 CHANGE DIMENSION FROM: "6.08-.04" TO: "6.07-.03"					
SECTION B4 CHANGE DIMENSION FROM: ".50" TO: "0.38"					
SECTION C5 CHANGE DIMENSION FROM: "46° +4°" TO: "50° -2°"					
14. THIS SECTION FOR GOVERNMENT USE ONLY					
a. (X one) <input checked="" type="checkbox"/> (1) Existing document supplemented by this NOR may be used in manufacture.					
<input type="checkbox"/> (2) Revised document must be received before manufacturer may incorporate this change.					
<input checked="" type="checkbox"/> (3) Custodian of master document shall make above revision and furnish revised document.					
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT TACOM, AMSTA-TR-E/TANK			c. TYPED NAME (First, Middle Initial, Last) JOSE R. MABESA		
d. TITLE MECH ENGR		e. SIGNATURE <i>Jose R. Mabesa</i>		f. DATE SIGNED (YYMMDD) 20000119	
15a. ACTIVITY ACCOMPLISHING REVISION		b. REVISION COMPLETED (Signature)		c. DATE SIGNED (YYMMDD)	

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		7. CAGE CODE 19200	8. DOCUMENT NO. C12283656
8. TITLE OF DOCUMENT PRINTED WIRING MASTER		10. REVISION LETTER a. CURRENT A	
		b. NEW	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES BOARD, PRINTED WIRING 12283639		NOR SHT 2 OF 2	ECP SHT 4 OF 4
13. DESCRIPTION OF REVISION  ON PRODUCTION MASTER (STABLE BASED ARTWORK):  CHANGE CONNECTOR (PIN) HOLE SPACING FROM:  "0.100" INCHES APART  TO  "0.109" INCHES APART			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	<input checked="" type="checkbox"/> (1) Existing document supplemented by this NOR may be used in manufacture. <input type="checkbox"/> (2) Revised document must be received before manufacturer may incorporate this change. <input checked="" type="checkbox"/> (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT TACM, AMSTA-TR-E/TANK	c. TYPED NAME (First, Middle Initial, Last) JOSE R. MABESA		
d. TITLE MECH ENGR	e. SIGNATURE Jose R. Mabesa	f. DATE SIGNED (YYMMDD) 2000 01 19	
15a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

L9T1007R1

CONFIGURATION CONTROL BOARD DIRECTIVE DESIGN ACTIVITY EVALUATION					1. PAN L9T1007R1		
2a. TYPE ITEM (Check only one) <input type="checkbox"/> TRANSFERRED <input checked="" type="checkbox"/> PROJECT MANAGED <input type="checkbox"/> OTHER _____			2b. TYPE ACTION <input checked="" type="checkbox"/> ECP <input type="checkbox"/> RFD <input type="checkbox"/> VEP <input type="checkbox"/> RFW <input type="checkbox"/> OTHER _____ <input type="checkbox"/> VECF				
3a. CONTRACT(s) AFFECTED  N/A			3b. SOLICITATION(s) AFFECTED  N/A				
4. APPLICATION <input type="checkbox"/> Apply to current contracts/solicitations <input checked="" type="checkbox"/> Apply to future applications <input type="checkbox"/> Formalizes change previously authorized via: _____ <input type="checkbox"/> Associated or Interface Changes as listed in remarks.			RETROFIT BY: <input type="checkbox"/> Attrition <input type="checkbox"/> Minor Alteration <input type="checkbox"/> MWO		5. COST IMPACT <input type="checkbox"/> NONE <input type="checkbox"/> INCREASE <input type="checkbox"/> DECREASE		
6a. RECOMMENDATION TO CONFIGURATION MANAGER: <input checked="" type="checkbox"/> APPROVE <input type="checkbox"/> APPROVE WITH MODIFICATION <input type="checkbox"/> DISAPPROVE <input type="checkbox"/> OTHER: _____			6b. MODIFICATION(s) TO SUBMITTED ACTION <input type="checkbox"/> NONE <input type="checkbox"/> AS FOLLOWS: _____				
7. POSITION ON RECOMMENDATION TO CONFIGURATION MANAGER							
DOCUMENTS/ DISCIPLINE	IMPACTED		OFFICE SYMBOL	TELEPHONE	TYPED/PRINTED NAME AND SIGNATURE	CONCUR	
	YES	NO				YES	NO
PRODUCT DRAWINGS	X		AMSTA-AR-CCB-DD	(518) 266-4287	BRYAN J. VAN DE WAL	X	
SPECIFICATIONS/ QAPs							
PACKAGING DATA							
SOFTWARE							
MAINTENANCE							
OTHER (Specify)							
VALUE ENGINEERING							
* NOTE: A Notice of Revision (NOR) is required for each document needing revision when a change is recommended for approval.							
8. REMARKS  <div style="text-align: center;">RECOMMEND ACCEPT</div>							
9a. OFFICE SYMBOL  AMSTA-AR-CCB-DD		9b. TYPED/PRINTED NAME AND TITLE  Robert A. Piacente TIPO		9c. SIGNATURE		9d. DATE 5 JAN 00  9e. TELEPHONE (518) 266-5782	